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Purified Mouse anti-Syk Monoclonal Antibody

CLX191AP

Lot: S1P20903

Clone: SYK-01

Isotype: Mouse IgG1

Specificity: The antibody SYK-01 reacts with Protein tyrosine kinase p72Syk (Syk; Syk family tyrosine-specific phospho-transferase). Syk is required for the transduction of signals through the B cell Antigen receptor (BCR).

Immunogen: Recombinant fragment (aa. 5-360) of human Syk.

Species Reactivity: Human, Mouse, Rat, Other not tested

Application: **Immunoprecipitation**

Western Blotting

Recommended dilution:

1-2 mg/ml, 60 min

Positive control:

RBL rat basophilic leukemia cell line
A-431 human epidermoid carcinoma cell line
RAMOS lymphoma cell line
U-937 human histiocytic lymphoma cell line
JURKAT human peripheral blood leukemia T-cell line

Negative control:

HeLa human cervix carcinoma cell line

Sample preparation:

Resuspend approx. 50 mil. cells in 1 ml cold lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60min on ice. Centrifuge to remove cell debris. Mix lysate (1:1) with non-reducing SDS-PAGE sample buffer.

Application note: Non-reducing conditions. SDS-PAGE (12% separating gel).

Immunocytochemistry

Continued Overleaf...

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Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Background:	Syk protein tyrosine kinase is required for the transduction of signals through the B cell Antigen receptor (BCR). The cross-linking of the B cell Antigen receptor (BCR) is coupled to the stimulation of multiple intracellular signal transduction cascades via receptor-associated, protein tyrosine kinases of both the Src and Syk families. Activated Syk couples the BCR to multiple downstream signaling pathways that are stimulated following B cell activation, including the mobilization of intracellular stores of calcium, activation of the mitogen-activated protein kinase cascade, and generation of phosphatidylinositol 3-phosphates.
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